GCSE Exam Questions

Unit Conversion | Ratio & Proportion

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GCSE Exam Questions: Unit Conversion

1)   Write down a sensible metric unit for each measurement.

(a) The height of a house.

_____

(1)

(b) The mass of a person

_____

(1)

(c) The capacity of a cup

_____

(1)

(3 marks)

2)   Aya is 1.71 m tall. Dara is 8 cm shorter than Aya.

How tall is Dara in metres?

metres
_____

(2 marks)

3) (a) Change 6 litres into cm^3.

_____

(1)

(b) Change 5 $cm2$ into mm^2.

_____

(2)

(c) Change 108 km/h into m/s.

_____

(3)

(6 marks)

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GCSE Exam Questions: Unit Conversion

4)   Use 1 stone = 14 pounds

       1 pound   450 grams

       John weighs 13 stones and 5 pounds.

       How much does he weigh in kilograms?

_____kg

(4 marks)

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GCSE Exam Questions: Unit Conversion Answers

	Question	Answer	Marks
1) **(a)**	Write down a sensible metric unit for each measurement. The height of a house	**(a)** Metres (m)	**(1)**
(b)	The mass of a person	**(b)** Kilogram (kg)	**(1)**
(c)	The capacity of a cup.	**(c)** Millilitre (ml)	**(1)**
2)	Aya is 1.71 m tall. Dara is 8 cm shorter than Aya. How tall is Dara in metres?	1.71 - 0.08 *oe* = 1.63 *m*	**(1)** **(1)**
3) (a)	Change 6 litres into cm^3.	**(a)** 6000 cm^3	**(1)**
(b)	Change 5 cm^2 into mm^2.	**(b)** 5×10^2 = 500 mm^2	**(1)** **(1)**
(c)	Change 108 *km/h* into *m/s*.	**(c)** $108 \times 1000 = 108{,}000$ $108{,}000 \div 60^2$ = 30 *m/s*	**(1)** **(1)** **(1)**
4)	Use 1 stone = 14 pounds 1 pound $\approx$ 450 grams John weighs 13 stones and 5 pounds. How much does he weigh in kilograms? Give your answer correct to 3 significant figures	$13 \times 14 + 5 = 187$ *pounds* $187 \times 450 = 84{,}150$ *grams* $84{,}150 \div 1000 = 84.15$ = 84.2 *kg*	**(1)** **(1)** **(1)** **(1)**

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